







FIG.5

Film thickness (nm)	Sheet resistance (Ω∕□)	Transmittance (% or more)	Heat- resistant resistance (Ω/□)	Etchability (sec or less)	(resistance	Moisture resistance (resistance change rate)
250 ± 30	4~7	75	10	360		
190 ± 25	6~10	77	15	270		
130 ± 20	9~15	82	20	240		
100 ± 20	12~20	80	30	-240	within	within
90 ± 20	14~25	79	35	240	±10%	±10%
75 ± 15	15~30	78	50	210		
50 ± 15	25~45	78	90	180		
40 ± 15	30~60	79	180	150		
30 ± 12	50~80	83	240	120		
28 ± 10	50~100	84	300	90		
25 ± 10	60~125	85	375	60		

FIG.6

N=n-jk

In vacuum

In medium of refractive index (n)

In medium of complex refractive index (n-jk)

